

Optimization -O0

```
-----
//toggle pins
PINB |= (1<<PB0);
    ldi    r26, 0x23
    ldi    r27, 0x00
    ldi    r30, 0x23
    ldi    r31, 0x00
    ld     r24, Z        ;- reads PINB
    ori    r24, 0x01     ;OR's with 1
    st     X, r24        ;writes to PINB
PINB = (1<<PB1);
    ldi    r30, 0x23     ; 35
    ldi    r31, 0x00     ; 0
    ldi    r24, 0x02     ; 2
    st     Z, r24
```

Optimization -O1

```
-----
//toggle pins
PINB |= (1<<PB0);
    ld     r24, Z        ;reads PINB
    ori    r24, 0x01     ;OR's with 1
    st     Z, r24        ;writes to PINB
PINB = (1<<PB1);
    ldi    r18, 0x02
    mov    r25, r18
    st     Z, r25
```

Optimization -O2 ; -O3; -Os

```
-----
//toggle pins
PINB |= (1<<PB0);
    sbi    0x03, 0       ;set bit 0 of PINB
PINB = (1<<PB1);
    ldi    r24, 0x02
    out    0x03, r24
```